

6. (Amended One Time) A bioconversion process to produce 1,3-propanediol comprising contacting, under suitable conditions, a carbon substrate other than glycerol or dihydroxyacetone with a single microorganism comprising

a) at least one gene expressing a dehydratase enzyme;
and [The process of Claim 1 wherein the microorganism is transformed with]

b) at least one exogenous DNA fragment encoding [dhaB1, dhaB2, and dhaB3 and /or] dhaT [whereby the organism expresses active dehydratase enzyme].

31. (Amended One Time) A recombinant eucaryote microorganism comprising a host cell selected from the group consisting of yeast and filamentous fungi, and expressing a diol dehydratase or a glycerol dehydratase enzyme.

REMARKS

All groups having been rejoined, Claims 1-33 are currently under examination in this application.

Statutory Double Patenting:

Claim 22 is rejected under § 101 for double patenting. The claim is drawn to a transformed organism ATCC 69789. This material is a transformed *E. coli* DH5α containing cosmid pKP1 containing a portion of the *Klebsiella* genome encoding the glycerol dehydratase enzyme. (See page 6 of the specification.) The subject matter described as identical to ATCC 69789 is that in Claim 3 of issued US 5633362. Claim 3 of US 5633362 is drawn to an organism identified as ATCC 69790. This material is a transformed *E. coli* DH5α containing cosmid pKP4 containing a portion of the *Klebsiella* genome encoding a diol dehydratase enzyme. (See page 6 of the specification.) Statutory double patenting applies to identical subject matter.